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CENTRAL FAX CENTER****JAN 05 2007****In the Claims**

Amend claims 1-11 as follows:

1. (Currently Amended) A method for accessing memory cells within a memory array operated with a precharge mechanism, in which differential read and write access operations are performed by activating a true bitline and a complement bitline, the method comprising:

determining whether a next memory access operation occurring in a clock cycle subsequent to ~~a current~~ an access operation occurring in a current clock cycle is a read access operation or a write access operation; and

performing a precharge of the true and complement bitlines only when a read access operation follows the access operation occurring in the current clock cycle.

2. (Previously Amended) The method according to claim 1, wherein the memory array comprises a static random access memory (SRAM) array.

3. (Previously Amended) The method according to claim 1, in which a first precharge control signal is combined with a read cycle (n+1) control signal to evaluate whether a next memory access cycle comprises a read access or a write access.

4. (Original) The method according to claim 3, wherein the first precharge control signal and the read cycle n+1 control signal are combined to yield a second precharge signal.

5. (Original) The method according to claim 3, wherein the read cycle (n+1) control signal is asserted according to an operating mode of the memory array, such that a write access operation occurring over a plurality of system clock cycles results in a continuous assertion of the next read cycle (n+1) control signal until the write access operation is complete.

6. (Original) The method according to claim 3, wherein the read cycle (n+1) control signal is asserted two system clock cycles in advance of a next memory access operation during a delay between when an address of the memory array is specified and a current access operation is complete.

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7. (Original) The method according to claim 3, wherein the next read cycle ($n+1$) control signal is asserted after a delay of one clock cycle during a period of time when no memory operation is performed.

8. (Withdrawn)

9. (Previously Presented) An integrated circuit memory array adapted for low power operation, comprising:

a plurality of addressable memory cells arranged in rows and columns, the memory cells segmented into a plurality of memory blocks;

a plurality of column lines, each coupled to a corresponding column of memory cells;

a plurality of row lines, each coupled to a corresponding row of memory cells;

a precharge circuit coupled to the plurality of row lines, the precharge circuit provided to assert the plurality of row lines in a memory block to a high logic level following a memory access operation;

a first precharge signal controller coupled to the precharge circuit, the first precharge signal controller provided to generate a first precharge control signal;

a read cycle signal controller for generating a read cycle ($n+1$) signal when a next memory access operation is a read access operation; and

a logical AND gate adapted to evaluate the first precharge control signal and the read cycle control ($n+1$) signal, the logical AND gate asserting a second precharge control signal when a next memory access is a read access operation for controlling the precharge circuit.

10. (Previously Presented) An integrated circuit memory array adapted for low power operation, comprising:

a plurality of addressable memory cells arranged in rows and columns, the memory cells segmented into a plurality of memory blocks;

a plurality of column lines, each coupled to a corresponding column of memory cells;

a plurality of row lines, each coupled to a corresponding row of memory cells;

a precharge circuit coupled to the plurality of row lines, the precharge circuit provided to assert the plurality of row lines in a memory block to a high logic level following a memory access

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operation;

a first precharge signal controller coupled to the precharge circuit, the first precharge signal controller provided to generate a first precharge control signal;

a read cycle signal controller for generating a read cycle ($n+1$) signal when a next memory access operation is a read access operation; and

a multiplexer adapted to evaluate the first precharge control signal and the read cycle control ($n+1$) signal, the multiplexer asserting a second precharge control signal when a next memory access is a read access operation for controlling the precharge circuit.

11. (Previously Presented) The memory array according to claim 9, wherein the memory array is a static random access memory (SRAM).

12. (Previously Presented) The memory array according to claim 10, wherein the memory array is a static random access memory (SRAM).

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